

ABSTRACT OF THE DISCLOSURE

A stimulable phosphor sheet is prepared by applying  
10 an electron beam to a stimulable phosphor or its source  
in a vacuum to vaporize a phosphor or its source and de-  
positing the vaporized phosphor or source on the support,  
under the condition that the electron beam is applied to  
the stimulable phosphor or source at an accelerating  
15 voltage of 1.5 kV to 5.0 kV. The stimulable phosphor or  
its source is preferably in the form of a solid having a  
relative density of 80% to 98%.